

What is claimed is:

1. A dishwasher comprising:
a washing chamber having tableware washed therein;
a rack movably installed in the washing chamber to hold the tableware thereon;
a plurality of guide rollers fixed to both confronting sidewalls of the washing chamber;
a guide rail provided between the first and second rollers to slide back and forth; and
a height adjustment means for moving the rack upward and downward, the height adjust means provided to slide on the guide rail.

2. The dishwasher as claimed in claim 1, the height adjust means comprising:
a supporter fixing the rack thereto;
a guide panel coupled to the supporter to guide upward and downward movement of the supporter, the guide panel coupled to slide on the guide rail; and
first and second support parts formed at the supporter and the guide panel, respectively to fix the supporter to a predetermined portion of the guide panel.

3. The dishwasher as claimed in claim 2, the first support part comprising:
a first fixing portion formed to be stepped at one upper side of the supporter; and
a second fixing portion protruding from a top end of the guide panel, the second fixing portion being brought contact with the first fixing portion to stop the supporter when the supporter moves downward.

4. The dishwasher as claimed in claim 2, the second support part comprising:

14 a first incline portion having an upward incline plane at the guide panel; and

15 a second incline portion having a downward incline plane at one side of the supporter,
16 the second incline portion sliding to be brought contact with the inline plane of the first
17 incline portion to be caught on the first incline portion when the supporter moves upward.

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5. The dishwasher as claimed in claim 4, the height adjust means further comprising a button installed at the guide panel to push the supporter toward the rack to release the second incline portion caught on the first incline portion.

6. The dishwasher as claimed in claim 5, wherein the supporter is formed of an elastic material to be elastically compressed by the button and to be elastically restored.

7. The dishwasher as claimed in claim 6, wherein the supporter is formed of a plastic based material.

8. The dishwasher as claimed in claim 4, wherein a stopper is formed at the supporter and the guide panel so that the supporter is unable to further move upward when the second incline portion is caught on the first incline portion.

9. The dishwasher as claimed in claim 8, the stopper comprising:
a first hook formed at the guide panel; and
a second hook formed at the supporter wherein the first and second hooks are locked to each other so that the supporter moving upward is unable to further move upward.

10. The dishwasher as claimed in claim 2, wherein a slot is formed at the guide rail and a roller inserted in the slot of the guide rail to slide is formed at the guide panel.

11. The dishwasher as claimed in claim 2, wherein the rack comprises a multitude of wires crossing to be connected to each other and wherein a plurality of hooks are formed at the supporter to fix the upper lateral wires of the rack thereto.

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12. The dishwasher as claimed in claim 2, wherein a plurality of protrusions are formed at the supporter to fix the lower lateral wire of the rack thereto.

13. The dishwasher as claimed in claim 12, wherein each of the protrusions has a hook shape and is supported by a rib extending from the supporter.

14. The dishwasher as claimed in claim 13, wherein the rib extends to an upper end of the protrusion to reinforce a rigidity of the protrusion.

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